# **WEST Search History**

Hide Items Restore Clear Cancel

DATE: Tuesday, April 19, 2005

Hide?	Set Name	Query	Hit Count
•	DB=PGPB	, USPT, USOC, EPAB, JPAB, DWPI, TDBD; PLUR=YB	ES; OP=ADJ
	L37	L36 and (disk near5 address\$1)	9
	L36	L35 and ((metadata) or (meta data))	15
	L35	L33 and inodes	20
	L34	L33 and inode	20
	L33	(file\$1 and system\$1 and snapshot\$1).ti.	52
	L32	(file\$1 and system\$1).ti.	20208
	L31	6829617.pn.	2
$\Box$	L30	L29 and stor\$	10
	L29	L28 and delet\$	11
	L28	L27 and copy\$	11
	L27	L26 and (data near5 block\$1)	12
	L26	L25 and metadata	13
	L25	L24 and snapshot\$1	19
	L24	L23 and (file near5 system\$1)	58
	L23	(disk near5 address) same (inode\$1)	62
	L22	6604118 .uref.	1
	L21	6205450 .uref.	10
	L20	L18 and lunix	0
	L19	L18 and linix	0
	L18	L17 and unix	22
	L17	(disk near5 address) same (snapshot\$1)	45
	L16	L15 and (multiple near5 inode\$1)	9
	L15	L14 and stor\$	17
	L14	L13 and copy\$	17
	L13	L12 and (disk near5 address\$1)	17
	L12	L11 and (updat\$ or modify\$)	41
	L11	L9 and metadata	44
	L10	L9 and metadaa	0
	L9	snapshot\$1 same inode\$1	70
	L8	15 and snapshot\$	1
	L7	L5 and (inode)	0

L6	L5 and (inode\$1)	0
Ľ5	hp.as.	6138
L4	L3 and snapshot\$1	8
L3	L2 and (data near5 block\$1)	11
L2	(inode\$1).ti.	23
L1	(inode\$1 and datablock\$1).ti.	0

# END OF SEARCH HISTORY

## **Hit List**

Clear Generate Collection Print Fwd Refs Bkwd Refs

Generate OACS

Search Results - Record(s) 1 through 8 of 8 returned.

1. Document ID: US 20030195903 A1

Using default format because multiple data bases are involved.

L4: Entry 1 of 8

File: PGPB

Oct 16, 2003

PGPUB-DOCUMENT-NUMBER: 20030195903

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030195903 A1

TITLE: System and method for asynchronous mirroring of snapshots at a destination

using a purgatory directory and inode mapping

PUBLICATION-DATE: October 16, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Manley, Stephen L. London CA GB
Owara, Shane S. Mountain View US

US-CL-CURRENT: 707/201

Title   Citation   Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De

2. Document ID: US 20030182325 A1

L4: Entry 2 of 8 File: PGPB Sep 25, 2003

PGPUB-DOCUMENT-NUMBER: 20030182325

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030182325 A1

TITLE: System and method for asynchronous mirroring of <a href="mailto:snapshots">snapshots</a> at a destination

using a purgatory directory and inode mapping

PUBLICATION-DATE: September 25, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Manley, Stephen L. London CA GB
Owara, Shane S. Mountain View US

US-CL-CURRENT: 707/204

※Full ⊗ Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

3. Document ID: JP 2004038928 A, US 20030182325 A1

L4: Entry 3 of 8

File: DWPI Feb 5, 2004

DERWENT-ACC-NO: 2003-811673

DERWENT-WEEK: 200411

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TITLE: Data stream reception system populates replica file system with file data

from source based upon offsets in inode map

INVENTOR: MANLEY, S L; OWARA, S S

PRIORITY-DATA: 2002US-0100950 (March 19, 2002), 2002US-0100967 (March 19, 2002)

PATENT-FAMILY:

 PUB-NO
 PUB-DATE
 LANGUAGE
 PAGES
 MAIN-IPC

 JP 2004038928 A
 February 5, 2004
 093
 G06F012/00

 US 20030182325 A1
 September 25, 2003
 038
 G06F012/00

INT-CL (IPC): G06 F 3/06; G06 F 12/00

Eull Title Citation Front Review Classification Date Reference Citation Claims KMC Draw De

4. Document ID: US 20030158873 A1

L4: Entry 4 of 8 File: DWPI Aug 21, 2003

DERWENT-ACC-NO: 2003-745685

DERWENT-WEEK: 200370

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TITLE: Access provision method in client information processing system, involves determining whether most recent <u>snapshot</u> data set includes <u>inode corresponding to</u>

inode number specified in link

INVENTOR: SAWDON, W A; SCHMUCK, F B

PRIORITY-DATA: 2002US-0077246 (February 15, 2002)

PATENT-FAMILY:

PUB-NO PUB-DATE LANGUAGE PAGES MAIN-IPC
US 20030158873 A1 August 21, 2003 055 G06F017/30

INT-CL (IPC): G06 F 12/00; G06 F 17/30

5. Document ID: US 20030158863 A1

L4: Entry 5 of 8 File: DWPI Aug 21, 2003

DERWENT-ACC-NO: 2003-745679

DERWENT-WEEK: 200370

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TITLE: File system snapshot provision method in computer system, involves copying inode corresponding to source file, without copying disk address of data block when

only metadata is modified

INVENTOR: HASKIN, R L; SAWDON, W A; SCHMUCK, F B; WYLLIE, J C

PRIORITY-DATA: 2002US-0077345 (February 15, 2002)

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES MAIN-IPC

US 20030158863 A1

August 21, 2003

055

G06F012/00

INT-CL (IPC):  $\underline{G06} + \underline{12/00}$ 

Full Title Citation Front Review (	Classification Date Reference	Claims KMC Draw De
6. Document ID: US 200	)30158834 A1	
L4: Entry 6 of 8	File: DWPI	Aug 21, 2003

DERWENT-ACC-NO: 2003-745664

DERWENT-WEEK: 200370

COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: File system snapshot updating method used for e.g. data backup, involves copying data contents including shadow inode and data block referenced by disk

address in shadow inode

INVENTOR: SAWDON, W A; SCHMUCK, F B; WYLLIE, J C

PRIORITY-DATA: 2002US-0077371 (February 15, 2002)

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC

US 20030158834 A1

August 21, 2003

055

G06F007/00

INT-CL (IPC):  $\underline{G06} + \underline{7/00}$ 

Full: Title Citation Front Review (	Classification   Date   Reference	Claims   KUNC   Draw De
······		
7. Document ID: CA 216	55912 C, CA 2165912 A	
L4: Entry 7 of 8	File: DWPI	May 25, 2004

DERWENT-ACC-NO: 1997-457927

DERWENT-WEEK: 200436

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Record List Display Page 4 of 5

TITLE: Write anywhere file-system layout e.g. for file server back-up - always writes new data to unallocated blocks on disk, creates snapshots for duplicate inode to be virtual read-only copies of file system

INVENTOR: HITZ, D; LAU, J; MALCOLM, M; RAKITZIS, B

PRIORITY-DATA: 1995CA-2165912 (December 21, 1995)

PATENT-FAMILY:

 PUB-NO
 PUB-DATE
 LANGUAGE
 PAGES
 MAIN-IPC

 CA 2165912 C
 May 25, 2004
 E
 000
 G06F017/30

 CA 2165912 A
 June 22, 1997
 093
 G06F017/30

INT-CL (IPC):  $\underline{G06} + \underline{17/30}$ 

	Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWAC	Draws De
										•			
******	,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,		*************	************	~~~~	***********	•••••	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***************************************	*****************	******	**>>>
		_	_										
	<b>1</b> )	8.	Docum	ent ID:	US 20	0040260673	3 Al, `	WO 9429	9807 A1,	EP 702815	A1, JP (	085113	367 W,
	US 5	5819	292 A. U	JS 5963	3962 A	. EP 100310	03 A2	EP 702	815 B1. E	DE 6942565	8 E. US	62893	356

File: DWPI

-

DERWENT-ACC-NO: 1995-098470

DERWENT-WEEK: 200504

L4: Entry 8 of 8

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B1, US 20020091670 A1, US 6721764 B2

TITLE: Write-anywhere file consistent point generation for file server back=up - marking  $\underline{inodes}$  pointing to modified blocks in file system as being in consistency point, flushing regular and special files to storage, and re-queuing dirty  $\underline{inodes}$  that were not part of consistence point

INVENTOR: HITZ, D; LAU, J; MALCOM, M; RAKITZIS, B; MALCOLM, M

PRIORITY-DATA: 1993US-0071643 (June 3, 1993), 1995US-0454921 (May 31, 1995), 1998US-0108022 (June 30, 1998), 1998US-0153094 (September 14, 1998), 2004US-0822630 (April 12, 2004)

#### PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20040260673 A1	December 23, 2004		000	G06F017/30
WO 9429807 A1	December 22, 1994	E	091	G06F015/40
EP 702815 A1	March 27, 1996	E	091	
JP 08511367 W	November 26, 1996		092	G06F012/00
US 5819292 A	October 6, 1998		000	G06F017/30
US 5963962 A	October 5, 1999		000	G06F017/30
EP 1003103 A2	May 24, 2000	E	000	G06F011/14
EP 702815 B1	August 23, 2000	E	000	G06F011/14
DE 69425658 E	September 28, 2000		000	G06F011/14
US 6289356 B1	September 11, 2001		000	G06F012/00
US 20020091670 A1	July 11, 2002		000	G06F007/00
US 6721764 B2	April 13, 2004		000	G06F012/00

Dec 23, 2004

Record List Display Page 5 of 5

 $\text{INT-CL (IPC): } \underline{\text{G06}} \ \underline{\text{F}} \ \underline{\text{7/00}}; \ \underline{\text{G06}} \ \underline{\text{F}} \ \underline{\text{11/14}}; \ \underline{\text{G06}} \ \underline{\text{F}} \ \underline{\text{12/00}}; \ \underline{\text{G06}} \ \underline{\text{F}} \ \underline{\text{15/40}}; \ \underline{\text{G06}} \ \underline{\text{F}} \ \underline{\text{17/30}}$ 

Generate Collection Print Fwd Refs Bkwd Refs	Generate
Term	Documents
SNAPSHOT\$1	0
SNAPSHOT	10472
SNAPSHOTR	1
SNAPSHOTS	4176
SNAPSHOT1	1
SNAPSHOT2	] 1
SNAPSHOT3	]1
SNAPSHOT:	1
SNAPSHOT]	] 1
SNAPSHOT*	1
(L3 AND SNAPSHOT\$1 ).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	8

Display Format: - Change Format

Previous Page Next Page Go to Doc#

# **Hit List**

Clear Generate Collection Print Fwd Refs Bkwd Refs
Generate OACS

# Search Results - Record(s) 1 through 9 of 9 returned.

### 1. Document ID: US 20050050110 A1

Using default format because multiple data bases are involved.

L16: Entry 1 of 9

File: PGPB

Mar 3, 2005

Aug 21, 2003

PGPUB-DOCUMENT-NUMBER: 20050050110

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050050110 A1

TITLE: Providing a snapshot of a subject of a file system

PUBLICATION-DATE: March 3, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Sawdon, Wayne A. San Jose CA US Schmuck, Frank B. Campbell CA US

US-CL-CURRENT: <u>707/201</u>

୍ମିଣା Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw, D

# 2. Document ID: US 20030159007 A1

L16: Entry 2 of 9 File: PGPB

PGPUB-DOCUMENT-NUMBER: 20030159007

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030159007 A1

TITLE: Deferred copy-on-write of a snapshot

PUBLICATION-DATE: August 21, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Sawdon, Wayne A. San Jose CA US Schmuck, Frank B. Campbell CA US

Record List Display Page 2 of 5

US-CL-CURRENT: 711/154; 711/156

Full Title: Citation Front Review Classification Date Reference Sequences Attachments Claims KWC Draw D

3. Document ID: US 20030158873 A1

L16: Entry 3 of 9

File: PGPB

Aug 21, 2003

Aug 21, 2003

PGPUB-DOCUMENT-NUMBER: 20030158873

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030158873 A1

TITLE: Dynamic links to file system snapshots

PUBLICATION-DATE: August 21, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Sawdon, Wayne A. San Jose CA US Schmuck, Frank B. Campbell CA US

US-CL-CURRENT: 707/204

Füll® Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw. D

1 4. Document ID: US 20030158863 A1

L16: Entry 4 of 9 File: PGPB

PGPUB-DOCUMENT-NUMBER: 20030158863

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030158863 A1

TITLE: File system snapshot with ditto address feature

PUBLICATION-DATE: August 21, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Haskin, Roger L. Morgan Hill CA US Sawdon, Wayne A. San Jose CA US Schmuck, Frank B. Campbell CA US Wyllie, James C. Monte Sereno CA US

US-CL-CURRENT: <u>707/200</u>

SEUIL | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWC | Draw, D

5. Document ID: US 20030158862 A1

L16: Entry 5 of 9

File: PGPB

Aug 21, 2003

PGPUB-DOCUMENT-NUMBER: 20030158862

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030158862 A1

TITLE: Standby file system with snapshot feature

PUBLICATION-DATE: August 21, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Eshel, Marc M. San Jose CA US Haskin, Roger L. Morgan Hill CA US Sawdon, Wayne A. San Jose CA US Schmuck, Frank B. Campbell CA US

US-CL-CURRENT: 707/200

Euli Title Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw, D

6. Document ID: US 20030158861 A1

L16: Entry 6 of 9

File: PGPB

Aug 21, 2003

PGPUB-DOCUMENT-NUMBER: 20030158861

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030158861 A1

TITLE: Providing a snapshot of a subset of a file system

PUBLICATION-DATE: August 21, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Sawdon, Wayne A. San Jose CA US Schmuck, Frank B. Campbell CA US

US-CL-CURRENT: 707/200

Full Title Citation	Front Review	Classification	Date Reference	Sequences	Attachments	Claims	KVMC Draw. D
				· -			

7. Document ID: US 20030158834 A1

L16: Entry 7 of 9

File: PGPB

Aug 21, 2003

Record List Display Page 4 of 5

PGPUB-DOCUMENT-NUMBER: 20030158834

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030158834 A1

TITLE: Writable file system snapshot with ditto address feature

PUBLICATION-DATE: August 21, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Sawdon, Wayne A. San Jose CA US Schmuck, Frank B. Campbell CA US Wyllie, James C. Monte Sereno CA US

US-CL-CURRENT: 707/1

্টিটা স্থানিক Citation স্থিত নিজ্ঞ Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw D

#### 8. Document ID: US 6829617 B2

L16: Entry 8 of 9 File: USPT

le: USPT Dec 7, 2004

US-PAT-NO: 6829617

DOCUMENT-IDENTIFIER: US 6829617 B2

TITLE: Providing a snapshot of a subset of a file system

DATE-ISSUED: December 7, 2004

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Sawdon; Wayne A. San Jose CA Schmuck; Frank B. Campbell CA

US-CL-CURRENT: 707/102; 707/10, 707/205, 707/4, 709/201

Full Title: Citation Front Review Classification Date Reference Citation Claims KMC Draw. D

9. Document ID: US 6748504 B2

L16: Entry 9 of 9 File: USPT Jun 8, 2004

US-PAT-NO: 6748504

DOCUMENT-IDENTIFIER: US 6748504 B2

TITLE: Deferred copy-on-write of a snapshot

DATE-ISSUED: June 8, 2004

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Sawdon; Wayne A.

San Jose

CA

Schmuck; Frank B.

Campbell

CA

US-CL-CURRENT: 711/162; 707/202, 711/221

Clear Generate Collection Print Fwd Refs Bkwd Refs	Generate OACS
Term	Documents
MULTIPLE	1635861
MULTIPLES	54466
INODE\$1	C
INODE	4892
INODED	3
INODEE	1
INODEF	
INODEG	2
INODEI	42
INODEJ	4
INODEL	619
(L15 AND (MULTIPLE NEAR5 INODE\$1) ).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBE	D. 9

Display Format: - Change Format

Previous Page Next Page Go to Doc#

Record List Display Page 1 of 10

## Hit List

Clear Generate Collection Print Fwd Refs Bkwd Refs
Generate OACS

**Search Results -** Record(s) 1 through 22 of 22 returned.

1. Document ID: US 20050050110 A1

Using default format because multiple data bases are involved.

L18: Entry 1 of 22

File: PGPB

Mar 3, 2005

PGPUB-DOCUMENT-NUMBER: 20050050110

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050050110 A1

TITLE: Providing a snapshot of a subject of a file system

PUBLICATION-DATE: March 3, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Sawdon, Wayne A. San Jose CA US Schmuck, Frank B. Campbell CA US

US-CL-CURRENT: <u>707/201</u>

Füll Title (	Citation Front	Review	Classification	Date	Reference	Sequences	Altachments	Claims	KWC	Drawi De
							•••••			

2. Document ID: US 20040250033 A1

L18: Entry 2 of 22 File: PGPB Dec 9, 2004

PGPUB-DOCUMENT-NUMBER: 20040250033

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040250033 A1

TITLE: System and method for managing stored data

PUBLICATION-DATE: December 9, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Prahlad, Anand	East Brunswick	NJ	US	
May, Andreas	Marlboro	NJ	US	
Lunde, Norman R.	Middletown	NJ	US	
Zhou, Lixin	Marlboro	NJ	US	
Kumar, Avinash	Ocean	NJ	US	
Ngo, David	Shrewbury	NJ	US	

Record List Display Page 2 of 10

US-CL-CURRENT: 711/162

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

3. Document ID: US 20040002934 A1

L18: Entry 3 of 22 File: PGPB Jan 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040002934

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040002934 A1

TITLE: System and method for providing requested file mapping information for a

file on a storage device

PUBLICATION-DATE: January 1, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Taulbee, Bradley Fort Collins CO US Spivak, Scott Fort Collins CO US Fleischmann, Michael Fort Collins CO US Cain, Gary Fort Collins CO US Collins, Kevin Fort Collins CO US

US-CL-CURRENT: 707/1

প্রদিল্প Title Citation Front Review Classification Date Reference Sequences Attachments Claims KNNC Draw De

4. Document ID: US 20030159007 A1

L18: Entry 4 of 22 File: PGPB Aug 21, 2003

PGPUB-DOCUMENT-NUMBER: 20030159007

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030159007 A1

TITLE: Deferred copy-on-write of a snapshot

PUBLICATION-DATE: August 21, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Sawdon, Wayne A. San Jose CA US Schmuck, Frank B. Campbell CA US

US-CL-CURRENT: 711/154; 711/156

Epull Title: Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

5. Document ID: US 20030158873 A1

L18: Entry 5 of 22 File: PGPB Aug 21, 2003

PGPUB-DOCUMENT-NUMBER: 20030158873

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030158873 A1

TITLE: Dynamic links to file system snapshots

PUBLICATION-DATE: August 21, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Sawdon, Wayne A. San Jose CA US Schmuck, Frank B. Campbell CA US

US-CL-CURRENT: <u>707/204</u>

Full Title Citation	Front Review		Date Reference		Attachments	QMC Drai	al De
·····		*************************		•••••		 *******	*****
pm; C D	, ID 110 0/	2020150062	A 1				

6. Document ID: US 20030158863 A1

L18: Entry 6 of 22 File: PGPB Aug 21, 2003

PGPUB-DOCUMENT-NUMBER: 20030158863

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030158863 A1

TITLE: File system snapshot with ditto address feature

PUBLICATION-DATE: August 21, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Haskin, Roger L. Morgan Hill CA US Sawdon, Wayne A. San Jose CA US

Schmuck, Frank B. Campbell CA US Wyllie, James C. Monte Sereno CA US

US-CL-CURRENT: <u>707/200</u>

'y Full'	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawi De
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2,,,,,	<b>-</b> -		· TD	T TO 000	20150060	A 1						

7. Document ID: US 20030158862 A1

L18: Entry 7 of 22 File: PGPB Aug 21, 2003

PGPUB-DOCUMENT-NUMBER: 20030158862

PGPUB-FILING-TYPE: new

Record List Display Page 4 of 10

DOCUMENT-IDENTIFIER: US 20030158862 A1

TITLE: Standby file system with snapshot feature

PUBLICATION-DATE: August 21, 2003

INVENTOR-INFORMATION:

COUNTRY RULE-47 NAME CITY STATE Eshel, Marc M. San Jose CA US Haskin, Roger L. Morgan Hill CA US Sawdon, Wayne A. San Jose CA US Schmuck, Frank B. Campbell CA US

US-CL-CURRENT: 707/200

S:Full & Title   Citation   Front   Review   Classificat	tion Date Reterence Sequences A	tiachments Claims KMC Draw De
8. Document ID: US 200301588	861 A1	
L18: Entry 8 of 22	File: PGPB	Aug 21, 2003

PGPUB-DOCUMENT-NUMBER: 20030158861

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030158861 A1

TITLE: Providing a snapshot of a subset of a file system

PUBLICATION-DATE: August 21, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Sawdon, Wayne A. San Jose CA US Schmuck, Frank B. Campbell CA US

US-CL-CURRENT: 707/200

FOI	Title Citation Front	Review Classification Da	ate Reference	: Sequences	Attachments	Claims	Kunc	Draw De
***************			•••••••	*************	*************	*****	****	***********
	9. Document ID:	US 20030158834 A	l					
L18:	Entry 9 of 22		File:	PGPB		Aug 2	21.	2003

PGPUB-DOCUMENT-NUMBER: 20030158834

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030158834 A1

TITLE: Writable file system snapshot with ditto address feature

PUBLICATION-DATE: August 21, 2003

Record List Display Page 5 of 10

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Sawdon, Wayne A. San Jose CA US Schmuck, Frank B. Campbell CA US Wyllie, James C. Monte Sereno CA US

US-CL-CURRENT: 707/1

Eŭilio | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWC | Draw Da

10. Document ID: US 6874035 B1

L18: Entry 10 of 22 File: USPT Mar 29, 2005

US-PAT-NO: 6874035

DOCUMENT-IDENTIFIER: US 6874035 B1

TITLE: System and methods for transforming data from a source to target platform

using snapshot

DATE-ISSUED: March 29, 2005

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Andre; Jeffrey Denver CO Tomsula; Patrick J. Arvada CO

US-CL-CURRENT: 709/246; 707/200, 707/4, 709/201, 709/203, 709/212, 709/213,

<u>711/114</u>, <u>711/118</u>, <u>711/133</u>, <u>719/310</u>

∷Full∷ Title: Citation Front Review Classification Date Reference Citation Claims KMC Draw De

11. Document ID: US 6829617 B2

L18: Entry 11 of 22 File: USPT Dec 7, 2004

US-PAT-NO: 6829617

DOCUMENT-IDENTIFIER: US 6829617 B2

TITLE: Providing a snapshot of a subset of a file system

DATE-ISSUED: December 7, 2004

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Sawdon; Wayne A. San Jose CA Schmuck; Frank B. Campbell CA

US-CL-CURRENT: <u>707/102</u>; <u>707/10</u>, <u>707/205</u>, <u>707/4</u>, <u>709/201</u>

Record List Display Page 6 of 10

FOLK STITLE Citation Front Review Classification Date Reference Citation Claims KMC Draw Da

12. Document ID: US 6748504 B2

L18: Entry 12 of 22 File: USPT Jun 8, 2004

US-PAT-NO: 6748504

DOCUMENT-IDENTIFIER: US 6748504 B2

TITLE: Deferred copy-on-write of a snapshot

DATE-ISSUED: June 8, 2004

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Sawdon; Wayne A. San Jose CA Schmuck; Frank B. Campbell CA

US-CL-CURRENT: 711/162; 707/202, 711/221

13. Document ID: US 6311193 B1

L18: Entry 13 of 22 File: USPT Oct 30, 2001

US-PAT-NO: 6311193

DOCUMENT-IDENTIFIER: US 6311193 B1

\*\* See image for <u>Certificate of Correction</u> \*\*

TITLE: Computer system

DATE-ISSUED: October 30, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Sekido; Kazunori Tokyo . JP

US-CL-CURRENT: 707/202; 711/154

\*Full Title Chation Front Review Classification Date Reference Claims KNNC Draw Do

14. Document ID: US 6205450 B1

L18: Entry 14 of 22 File: USPT Mar 20, 2001

US-PAT-NO: 6205450

DOCUMENT-IDENTIFIER: US 6205450 B1

\*\* See image for <u>Certificate of Correction</u> \*\*

Record List Display Page 7 of 10

TITLE: Computer system capable of restarting system using disk image of arbitrary

snapshot

DATE-ISSUED: March 20, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Kanome; Namiko Tokyo JP

US-CL-CURRENT: 707/203; 707/204, 707/206

15. Document ID: US 5974544 A

L18: Entry 15 of 22 File: USPT Oct 26, 1999

US-PAT-NO: 5974544

DOCUMENT-IDENTIFIER: US 5974544 A

TITLE: Method and controller for defect tracking in a redundant array

DATE-ISSUED: October 26, 1999

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Jeffries; Kenneth Layton Leander TX Jones; Craig S. Austin TX

US-CL-CURRENT: 713/1; 710/10, 714/8

Full Title: Citation Front Review Classification Date Reference Claims KMC Draw, De

16. Document ID: US 5619723 A

L18: Entry 16 of 22 File: USPT Apr 8, 1997

US-PAT-NO: 5619723

DOCUMENT-IDENTIFIER: US 5619723 A

TITLE: System for scheduling read ahead operations if new request is sequential of

last n last read requests wherein n is different on independent activities

DATE-ISSUED: April 8, 1997

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Jones: Craig S. Austin TX

Jeffries: Kenneth L. Leander TX

Parks: Terry J. Round Rock TX

Record List Display Page 8 of 10

US-CL-CURRENT: 710/3; 711/111

Full Title Citation Front Review Classification Date Reference Claims KMC Draw De

17. Document ID: US 5530960 A

L18: Entry 17 of 22 File: USPT Jun 25, 1996

US-PAT-NO: 5530960

DOCUMENT-IDENTIFIER: US 5530960 A

TITLE: Disk drive controller accepting first commands for accessing composite

drives and second commands for individual diagnostic drive control wherein commands

are transparent to each other

DATE-ISSUED: June 25, 1996

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Parks; Terry J. Round Rock TX
Jeffries; Kenneth L. Leander TX
Jones; Craig S. Austin TX

US-CL-CURRENT: 710/5

Eulio Title | Citation | Front | Review | Classification | Date | Reference | Classification | Claims | KWIC | Draw De

18. Document ID: US 5506977 A

L18: Entry 18 of 22 File: USPT Apr 9, 1996

US-PAT-NO: 5506977

DOCUMENT-IDENTIFIER: US 5506977 A

TITLE: Method and controller for minimizing reads during partial stripe write

operations to a disk drive

DATE-ISSUED: April 9, 1996

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Jones; Craig S. Austin TX

US-CL-CURRENT: <u>711/155</u>

Eull Title Citation Front Review Classification Date Reference Cases Cases Claims KuiC Draw De

19. Document ID: US 5483641 A

L18: Entry 19 of 22 File: USPT Jan 9, 1996

Record List Display Page 9 of 10

US-PAT-NO: 5483641

DOCUMENT-IDENTIFIER: US 5483641 A

TITLE: System for scheduling readahead operations if new request is within a proximity of N last read requests wherein N is dependent on independent activities

DATE-ISSUED: January 9, 1996

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Dec 5, 1995

Jones; Craiq S.

Austin Leander TX TX

Jeffries; Kenneth L.

D - - - - 1 - D - - 1-

ТX

File: USPT

Parks; Terry J.

Round Rock

US-CL-CURRENT: 710/3; 711/111

Full Title	Citation Front	Review Classification	Date Reference	Claims KOOC Drawa De
<b>2</b> 0.	Document ID:	US 5473761 A		

US-PAT-NO: 5473761

L18: Entry 20 of 22

DOCUMENT-IDENTIFIER: US 5473761 A

TITLE: Controller for receiving transfer requests for noncontiguous sectors and reading those sectors as a continuous block by interspersing no operation requests between transfer requests

DATE-ISSUED: December 5, 1995

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Parks; Terry J.

Round Rock

TX

Jeffries; Kenneth L.

Leander

TX

Jones; Craig S.

Austin

ΤX

US-CL-CURRENT: 711/4; 710/26, 710/74, 711/112, 711/114, 711/154, 711/170

Fulls	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KOMC	Drav	n De
								<del></del>	 				·····
	21.	Docume	ent ID:	US 5	313626 A								
L18:	Entr	y 21 of	22				File:	USPT		May	17,	1994	

US-PAT-NO: 5313626

DOCUMENT-IDENTIFIER: US 5313626 A

TITLE: Disk drive array with efficient background rebuilding

Record List Display Page 10 of 10

DATE-ISSUED: May 17, 1994

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Jones; Craig S. Austin TX 78759 Overfield; Anthony L. Austin TX 78727

US-CL-CURRENT: 714/5

Full | Stitle | Citation | Front | Review | Classification | Date | Reference | Citation | Claims | RUNC | Draw, Dr. |

- 22. Document ID: US 5313585 A

File: USPT

May 17, 1994

L18: Entry 22 of 22

US-PAT-NO: 5313585

DOCUMENT-IDENTIFIER: US 5313585 A

TITLE: Disk drive array with request fragmentation

DATE-ISSUED: May 17, 1994

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Jeffries; Kenneth L. Leander TX 78641.

Jones; Craig S. Austin TX 78759

US-CL-CURRENT: 711/201; 711/112, 711/4

SEull   Title   Citation   Front   Review   Classification   Date   Reference	Claims ROMC Draw i
Clear Generate Collection Print Fwd Refs	Bkwd Refs Generate OACS
Term	Documents
UNIX	29292
UNICES	2
UNIXES	9
(17 AND UNIX) PGPB,USPT,USOC,EPAB,JPAB,DV	WPI,TDBD. 22
(L17 AND UNIX ).PGPB,USPT,USOC,EPAB,JPAB,	DWPI,TDBD. 22

Display Format: - Change Format

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# **Hit List**

Clear Generate Collection Print Fwd Refs Bkwd Refs
Generate OACS

**Search Results -** Record(s) 1 through 10 of 10 returned.

1. Document ID: US 6857001 B2

Using default format because multiple data bases are involved.

L21: Entry 1 of 10

File: USPT

Feb 15, 2005

US-PAT-NO: 6857001

DOCUMENT-IDENTIFIER: US 6857001 B2

TITLE: Multiple concurrent active file systems

DATE-ISSUED: February 15, 2005

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Hitz; David Los Altos CA
Edwards; John Sunnyvale CA
Lewis; Blake Los Altos Hills CA

US-CL-CURRENT: 707/202; 707/1, 707/100, 707/201, 707/8

Full: Title Citation Front Review Classification Date Reference Citation Citation Claims KWC Draw De

2. Document ID: US 6848106 B1

L21: Entry 2 of 10 File: USPT Jan 25, 2005

US-PAT-NO: 6848106

DOCUMENT-IDENTIFIER: US 6848106 B1

TITLE: Snapshot restore of application chains and applications

DATE-ISSUED: January 25, 2005

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Hipp; Burton A. Elk Grove CA

US-CL-CURRENT: 719/312; 709/213, 709/214, 709/226, 718/1, 718/100, 718/104

Eull Title Citation Front Review Classification Date Reference

Record List Display Page 2 of 5

3. Document ID: US 6751637 B1

L21: Entry 3 of 10 File: USPT Jun 15, 2004

US-PAT-NO: 6751637

DOCUMENT-IDENTIFIER: US 6751637 B1

TITLE: Allocating files in a file system integrated with a raid disk sub-system

DATE-ISSUED: June 15, 2004

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Hitz; David Sunnyvale CA
Malcolm; Michael Los Altos CA
Lau; James Cupertino CA
Rakitzis; Byron Mountain View CA

US-CL-CURRENT: 707/202; 707/200, 707/203, 707/204, 707/205, 711/114

িFull.' Title Citation Front Review Classification Date Reference ( Citation Claims KMC Draw Da

4. Document ID: US 6721764 B2

L21: Entry 4 of 10 File: USPT Apr 13, 2004

US-PAT-NO: 6721764

DOCUMENT-IDENTIFIER: US 6721764 B2

TITLE: Copy on write file system consistency and block usage

DATE-ISSUED: April 13, 2004

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Hitz; David Los Altos CA
Malcolm; Michael Los Altos CA
Lau; James Los Altos Hills CA
Rakitzis; Byron Burlingame CA

US-CL-CURRENT: 707/202; 707/203, 707/204, 714/15, 714/20

Full: Title Citation Front Review Classification Date Reference Citation Claims WMC Graw De

5. Document ID: US 6674447 B1

L21: Entry 5 of 10 File: USPT Jan 6, 2004

US-PAT-NO: 6674447

DOCUMENT-IDENTIFIER: US 6674447 B1

Record List Display Page 3 of 5

TITLE: Method and apparatus for automatically recording snapshots of a computer screen during a computer session for later playback

DATE-ISSUED: January 6, 2004

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Chiang; Hui-Hwa Fremont CA
Lee; Kuo-Chun Fremont CA
Chen; Tsung-Yen (Eric) Fremont CA
Han; Ching-Chih (Jason) Fremont CA

US-CL-CURRENT: 715/704; 345/531

Full Title Citation Front	Review	Classification	Date	Reference		Claims	KOMC	Draw De
	*******				********	 ******	*******	

6. Document ID: US 6604118 B2

L21: Entry 6 of 10 File: USPT Aug 5, 2003

US-PAT-NO: 6604118

DOCUMENT-IDENTIFIER: US 6604118 B2

TITLE: File system image transfer

DATE-ISSUED: August 5, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Kleiman; Steven Los Altos CA
Hitz; David Portola Valley CA
Harris; Guy Mountain View CA
O'Malley; Sean Santa Clara CA

US-CL-CURRENT: 707/203; 707/204

Full Title Citation Front	Review Classification	Date Reference	Claims KMC Draw De

7. Document ID: US 6484187 B1

L21: Entry 7 of 10 File: USPT Nov 19, 2002

US-PAT-NO: 6484187

DOCUMENT-IDENTIFIER: US 6484187 B1

\*\* See image for Certificate of Correction \*\*

TITLE: Coordinating remote copy status changes across multiple logical sessions to

maintain consistency

DATE-ISSUED: November 19, 2002

Record List Display Page 4 of 5

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Kern; Ronald Maynard Tucson AZMcBride; Gregory Edward Tucson · AZ Shackelford; David Michael Tucson ΑZ

US-CL-CURRENT: 707/204; 707/10, 707/200, 707/201

XXFull / Title | Citation | Front | Review | Classification | Date | Reference | XXXIII | XXIII | XXIIII | XXIII | XXIII | XXIIII | XXIII | XXIIII | XXIII | XXIII | XXIIII | XXIII | XXIIII | 8. Document ID: US 6442605 B1

L21: Entry 8 of 10 File: USPT Aug 27, 2002

US-PAT-NO: 6442605

DOCUMENT-IDENTIFIER: US 6442605 B1

TITLE: Method and apparatus for system maintenance on an image in a distributed

data processing system

DATE-ISSUED: August 27, 2002

INVENTOR-INFORMATION:

CITY NAME STATE ZIP CODE COUNTRY

Rodriguez; Herman Austin TX

US-CL-CURRENT: 709/223

Eul Title Citation Front Review Classification Date Reference Claims KMC Draw. De 9. Document ID: US 6374363 B1

L21: Entry 9 of 10 File: USPT Apr 16, 2002

US-PAT-NO: 6374363

DOCUMENT-IDENTIFIER: US 6374363 B1

TITLE: Method for generating a footprint image file for an intelligent backup and

restoring system

DATE-ISSUED: April 16, 2002

INVENTOR-INFORMATION:

CITY STATE ZIP CODE COUNTRY

Wu; Gilbert Chang-Tying San Jose CA Bui; Thanh T. San Jose CA Goshey; Michael M. San Jose CA

US-CL-CURRENT: 714/6; 714/42

Record List Display Page 5 of 5

Epull Title Citation Front Review Classification Date Reference Citation Claims KMC Draw Do 10. Document ID: US 6373498 B1 L21: Entry 10 of 10 File: USPT Apr 16, 2002 US-PAT-NO: 6373498 DOCUMENT-IDENTIFIER: US 6373498 B1 TITLE: Displaying images during boot-up and shutdown DATE-ISSUED: April 16, 2002 INVENTOR-INFORMATION: NAME CITY STATE ZIP CODE COUNTRY Abgrall; Jean-Paul San Jose CA

US-CL-CURRENT: <u>345/619</u>

Full: Title: Citation Front Review Classification Date Reference	Claims KMC Draw
	3
Clear Generate Collection Print Fwd Refs Bkwd Refs	Generate OACS
Term	Documents
"6205450"	11
6205450S	0
"6205450".UREFPGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	10
(6205450 .UREF.).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	10

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# **Hit List**

Clear Generate Collection Print Fwd Refs Bkwd Refs

Generate OACS

**Search Results -** Record(s) 1 through 1 of 1 returned.

1. Document ID: US 6857001 B2

Using default format because multiple data bases are involved.

L22: Entry 1 of 1

File: USPT

Feb 15, 2005

US-PAT-NO: 6857001

DOCUMENT-IDENTIFIER: US 6857001 B2

TITLE: Multiple concurrent active file systems

DATE-ISSUED: February 15, 2005

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Hitz; David

Los Altos

CA

Edwards; John

Sunnyvale

CA

Lewis; Blake

Los Altos Hills

CA

US-CL-CURRENT: 707/202; 707/1, 707/100, 707/201, 707/8

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Clear	Generate Collection   Print   Fwd Refs   Bkwd Refs	Generate	OACS
		<u> </u>	
	Term	Documents	
	"6604118"	2	
	6604118S	0	
	"6604118".UREFPGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	1	
	(6604118 .UREF.).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	1	

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